

Thursday April 6, 2017

ACWA's Water Quality Committee presents

Workshop on Oregon's Copper Standard

at Salem's Willow Lake Wastewater Treatment Facility

5915 Windsor Island Road North, Keizer, OR 97303

9:30 – noon in the Columbia Room (check in starts at 9:00)

No cost – refreshments served!

Guest presenters:

Bob Baumgartner from Clean Water Services

Jeff Navarro/Steve Schnurbusch from DEQ

Additional ACWA member copper experts!

AGENDA

(subject to fine tuning)

Each main topic will be followed by Q&A

The Basics

- Copper toxicity and bioavailability, and how the Biotic Ligand Model works
- Important parameters (e.g. pH, DOC, dissolved copper)
- Other parameters, and how to estimate them

The New Copper Standard

- How we got here: criteria derivation using the Biotic Ligand Model
- Data in a regulatory framework: drivers, missing data, and defaults
- The alternatives – the BLM, FMB, and hardness methods

Monitoring Requirements

- Data needs and key parameters
- Sample location and timing
- Clean analytical techniques
- Device calibration
- Pitfalls to avoid

Reasonable Potential Analysis (RPA) and effluent limitations

- Spreadsheet overview
- Considerations; comparison to previous hardness methods

Closing Comments and Discussion